## **CLAIM SUMMARY DOCUMENT**

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Claim 1 (Currently amended) A disposable aerosol generator for use with an inhaler device which includes a heater adapted to volatilize <u>liquid</u> fluid stored in the disposable aerosol generator, comprising:

a disposable body including a sealed chamber and an outlet which can be opened to expel vapor, the disposable body including first and second layers of material defining the chamber, the chamber accommodating a predetermined volume of a <u>liquid fluid</u> which is expelled through the <u>opened</u> outlet <u>as vapor</u> when the <u>liquid fluid</u> in the chamber is volatilized by the heater.

Claim 2 (Original) The aerosol generator according to Claim 1, wherein the outlet is located at an end of a flow passage located between the first and second layers of material.

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Claim 3 (Currently amended) The aerosol generator according to Claim 1, wherein the disposable body includes a series of spaced apart aerosol generators, the disposable body being configured to fit in the inhaler device so as to allow advancement of each respective aerosol generator to a release position at which the heater can heat the <u>liquid fluid</u> in the chamber of the respective aerosol generator.

Claim 4 (Original) The aerosol generator according to Claim 3, wherein each of the aerosol generators includes an outlet located at the end of a flow passage, the flow passage of each aerosol generator being located between the first and second layers

Claim 5 (Original) The aerosol generator according to Claim 1, wherein the first layer of material comprises an injection molded polymer material wherein the chamber comprises a recess in the polymer material.

Claim 6 (Original) The aerosol generator according to Claim 1, wherein the first layer of material comprises a polymer material and the second layer of material comprises a foil layer heat sealed to the polymer layer.

Claim 7 (Original) The aerosol generator according to Claim 6, wherein the outlet is located at an end of a flow passage extending from the chamber, the flow passage comprising a channel in the polymer layer.

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Claim 8 (Currently amended) A disposable aerosol generator for use with an inhaler device which includes a heater adapted to volatilize liquid stored in the disposable aerosol generator, comprising:

a disposable body comprising a disc including a series of spaced apart aerosol generators, each aerosol generator including a sealed chamber and an outlet which can be opened to expel vapor, the disposable body including first and second layers of material defining the chamber, the chamber accommodating a predetermined volume of a liquid which is expelled through the opened outlet as vapor when the liquid in the chamber is volatilized by the heater The aerosol generator according to Claim 1, wherein the disposable body comprises a disc which includes a series of spaced apart aerosol

generators, the chamber of each respective aerosol generator being located adjacent an outer portion of the disc and the outlet of each respective aerosol generator being located adjacent a central portion of the disc.

Claim 9 (Original) The aerosol generator according to Claim 2, wherein the flow passage comprises a rectilinear channel having a width of 0.01 to 10 mm and a length of at least 5 mm.

Claim 10 (Currently amended) An inhaler device usable with the disposable aerosol generator according to Claim 1, wherein the inhaler device includes a heater arranged to heat the <u>liquid fluid</u> in the chamber so as to expel <del>volatilized fluid vapor</del> from the <u>opened</u> outlet.

Claim 11 (Original) The inhaler device according to Claim 10, wherein the heater comprises an electrical resistance heater.

Claim 12 (Original) The inhaler device according to Claim 11, wherein the heater comprises a layer of resistance heating material on a substrate, the substrate including an opening located adjacent the outlet.

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Claim 13 (Currently amended) The inhaler device according to Claim 12, further comprising an opening device, the opening device being adapted to pierce at least one of the first layer and and/or second layer and open form the outlet.

Claim 14 (Original) The inhaler device according to Claim 13, wherein the opening device includes a solenoid activated piercing element, the piercing element including a movable tip which is located in the opening in the substrate, the tip being moved upon actuation of the piercing element such that the tip penetrates the first layer of the disposable body.

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Claim 15 (Currently amended) The inhaler device according to Claim 10, wherein the disposable body is movably supported such that the chamber can be moved to a release position at which the heater can heat the <u>liquid fluid</u> in the chamber sufficiently to volatilize the <u>liquid fluid</u> and expel the <u>vapor volatilized fluid</u> through the <u>opened</u> outlet.

Claim 16 (Original) The inhaler device according to Claim 12, wherein the layer of resistance heating material comprises a strip arranged in a pattern which is coextensive with the size of the chamber.

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Claim 17 (Currently amended) The inhaler device according to Claim 10, further comprising a dispensing member located adjacent the outlet of the aerosol generator, the <u>vapor volatilized fluid</u> expelled from the <u>opened</u> outlet passing through a passage in the dispensing member.

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Claim 18 (Currently amended) The inhaler device according to Claim 10, wherein the disposable body includes a series of spaced apart aerosol generators, the disposable body being configured to fit in the inhaler device so as to allow advancement of each respective aerosol generator to a release position at which the heater can heat the <u>liquid fluid</u> in the chamber of the respective aerosol generator.

Claim 19 (Currently amended) The inhaler device according to Claim 18, wherein the first layer comprises a layer of injection molded polymer material and the second layer of material comprises a foil heat sealed to the polymer layer, the inhaler device including an opening member which is operable to pierce the foil layer to open form the outlet immediately prior to when the heater is activated to volatilize the <u>liquid</u> fluid in the chamber.

Claim 20 (Currently amended) The inhaler device according to Claim 16, wherein the disposable body includes a flow passage extending rectilinearly from the chamber, the heater including a first portion arranged to heat the chamber and a second portion arranged to heat the flow passage, the first and second portions of the heater comprising a layer of resistance heating material configured such that the second portion of the heater becomes hotter than the first portion of the heater during actuation of the heater to volatilize the liquid fluid in the chamber.

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Claim 21 (Currently amended) A method of forming an aerosol using the inhaler device according to Claim 11, comprising severing at least one of the first layer and and/or second layer so as to open form the outlet and activating the heater so as to volatilize the liquid fluid in the chamber and expel the vapor volatilized fluid through the outlet.

Claim 22 (Currently amended) The method according to Claim 21, wherein the disposable body includes a series of spaced apart aerosol generators, the method including moving the disposable body relative to the inhaler device so as to locate a first one of the aerosol generators at a position where the heater can heat the <u>liquid fluid</u> in the chamber of the first aerosol generator and volatilize the <u>liquid fluid</u> therein.

Claim 23 (Currently amended) The method according to Claim 21, wherein the severing is carried out by driving a piercing member through at least one of the first and and/or second layer, the outlet being located adjacent a passage of a dispensing member and the volatilized fluid vapor formed by the heater being expelled into the passage after passing through the opened outlet.

Claim 24 (Currently amended) The method according to Claim 23, wherein the disposable body includes a flow passage extending rectilinearly from the chamber, the heater including a first portion arranged to heat the chamber and a second portion arranged to heat the flow passage, the first and second portions of the heater comprising a layer of resistance heating

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material configured such that the second portion of the heater becomes hotter than the first portion of the heater during volatilization of the liquid fluid in the chamber.

Claim 25 (Original) The aerosol generator according to Claim 1, wherein the sealed chamber comprises a reservoir in a lower surface of the disposable body and a flow passage in an upper surface of the disposable body, the flow passage being in fluid communication with the reservoir.

Claim 26 (Original) The aerosol generator according to Claim 25, wherein a first layer of material on the lower surface covers the reservoir and a second layer of material on the upper surface covers the flow passage, the disposable body comprising a polymer material, the first layer of material comprising a polymer film and the second layer of material comprising a heat resistant material.

Claim 27 (Original) The aerosol generator according to Claim 25, wherein the disposable body comprises a circular body with a plurality of sealed chambers, the circular body including gear teeth on an outer periphery thereof.

Claim 28 (Currently amended) The inhaler device according to Claim 13, wherein the opening device is fixedly attached to a portion of the inhaler device and the inhaler device includes a lifting mechanism which moves the disposable body into engagement with the opening device so as to open form the outlet.

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Claim 29 (Original) The inhaler device according to Claim 10, wherein the inhaler device

comprises a housing and a cover, the cover being movable with respect to the housing so as

to permit insertion of the disposable body in the inhaler device when the cover is in an open

position.

Claim 30 (Currently amended) The inhaler device according to Claim 29, wherein the

heater is mounted on a lower surface of the cover, the housing further including a lifting

mechanism which moves the disposable body into engagement with an opening device so as

to open form the outlet.

Claim 31 (Currently amended) The inhaler device according to Claim 10, wherein the

inhaler device includes a fluid delivery mechanism which engages the disposable body such

that liquid fluid in the chamber is forced out of the chamber, along a flow passage in the

disposable body and toward the outlet, the heater being arranged to heat the liquid in the

flow passage.

Claim 32 (Original) The inhaler device according to Claim 31, wherein the fluid delivery

mechanism includes a piston movable towards and away from the disposable body such that

engagement of the disposable body with the piston forces liquid out of the chamber and into

the flow passage at a substantially constant flow rate.

Claim 33 (Original) The inhaler device according to Claim 32, wherein the inhaler device includes a driven piston cam which presses the piston against the disposable body, the piston cam being mounted on a shaft which is rotated by a motor when the motor is supplied power from a power source.

Claim 34 (Previously amended) The inhaler device according to Claim 33, further comprising a lifting mechanism which moves the disposable body into engagement with an opening device so as to form the outlet, the lifting device including a spindle received in an opening in the disposable body and a spindle cam mounted on the shaft, the spindle cam pressing the spindle against the disposable body during rotation of the shaft.

Claim 35 (Original) The inhaler device according to Claim 34, further comprising a gear wheel mounted on the shaft, the gear wheel engaging teeth on an outer periphery of the disposable body and effecting rotation of the disposable body upon rotation of the shaft.

Claim 36 (Currently amended) The inhaler device according to Claim 35, further comprising a controller operably connected to the motor, the power source and the heater so as to actuate the heater when <u>liquid</u> fluid is forced out of the chamber by the piston.

Claim 37 (Currently amended) A method of forming an aerosol using the inhaler device according to Claim 21, wherein the chamber is located on a lower surface of the disposable body and the outlet is located on an upper surface of the disposable body, the outlet being

connected to the chamber by a flow passage in the upper surface of the disposable body, the method including a step of mechanically forcing <u>liquid</u> fluid out of the chamber so as to flow along the flow passage and activating the heater so as to volatilize the <u>liquid</u> fluid in the flow passage and expel the <u>vapor volatilized fluid</u> through the <u>opened</u> outlet.

Claim 38 (Currently amended) The method according to Claim 37, wherein the <u>liquid fluid</u> is forced out of the chamber by pressing a piston against the disposable body.

Claim 39 (Currently amended) The method according to Claim 37, wherein the disposable body is movable vertically toward and away from the heater, the method including a step of moving the disposable body from a first position spaced vertically below the heater to a second position in proximity to the heater prior to volatilizing the <u>liquid fluid</u> with the heater.

Claim 40 (New) The aerosol generator according to Claim 1, wherein the liquid includes a medicament selected from the group consisting of albuterol, isoproterenol sulfate, metaproterenol sulfate, terbutaline sulfate, pirbuterol acetate, salmeterol xinotoate, formotorol, beclomethasone dipropionate, flunisolide, fluticasone, budesonide, triamcinolone acetonide, beclomethasone dipropionate, triamcinolone acetonide, flunisolide, and fluticasone.

Claim 41 (New) A disposable aerosol generator for use with an inhaler device including a heater adapted to volatilize liquid stored in the disposable aerosol generator, the aerosol generator comprising a disposable body including a sealed chamber and an outlet which can be opened to expel vapor, the disposable body including first and second layers of material defining the chamber, the chamber being sized to accommodate a single dose of a liquid which is expelled through the opened outlet as vapor when the liquid in the chamber is volatilized by the heater.

Claim 42 (New) The aerosol generator according to Claim 41, wherein the liquid includes a medicament selected from the group consisting of albuterol, isoproterenol sulfate, metaproterenol sulfate, terbutaline sulfate, pirbuterol acetate, salmeterol xinotoate, formotorol, beclomethasone dipropionate, flunisolide, fluticasone, budesonide, triamcinolone acetonide, beclomethasone dipropionate, triamcinolone acetonide, flunisolide, and fluticasone.